Data Sheet

PRIMERGY TX150 S5
Mono socket Dual-Core Tower Server
Low computing complexity with great data safety

PRIMERGY TX Tower Servers ensure carefree and continuous operation with proven data center technology. Their design for maximum ease of use and ease of management has been honored with industry design awards in 2003 and 2004. The latest processor generation combined with innovative air flow cooling technology ("Cool-safe™") assure a long life and the highest possible performance at work. And as your business grows, so do our PRIMERGY towers, providing plenty of headroom for expansion so that you benefit longer from your investments in PRIMERGY tower servers.

For corporate workgroups and remote sites, PRIMERGY TX servers ensure less troubleshooting and lower costs with their complete PRIMERGY ServerView Suite remote management functions – flexible management from anywhere at any time. Since corporate infrastructure is subject to consolidation changes, our universal tower-to-rack conversion kit protects your investment by prolonging the system's lifecycle.

The flexible custom supply model and our build-to-order process mean that only fully built and pre-tested solutions are shipped to customers, who can select from a broad family of tower models to meet their individual needs.

PRIMERGY TX150 S5

The PRIMERGY tower server with the brand-new Intel® Xeon® Dual-Core processor even quicker, yet has a lower clock rate and power consumption. This is achieved both with a 1066 MHz FSB clock rate and (mainly) with to Intel's new state-of-the-art multi-core optimized microarchitecture. A server with this processor proves to be a particularly powerful system that can respond positively to your requirements. Enhance your efficiency when it comes to simultaneous execution of multiple applications and downloading mass data. The processor with the Intel® 3000 chipset also supports EM64 technology. This fifth-generation tower server combines high performance with even less noise. The SAS or SATA hot-plug hard disks can be replaced easily while the server is in operation. Both variants offer high data security thanks to built-in RAID 1 functionality. The standard iRMC (Integrated Remote Management Controller) offers enhanced system management, based on IPMI 2.0 technology, and the redundant power supply module further increases operational reliability. The familiar, well-tried Intel Pentium® D (Dual-Core) processor round out the offering.

Key Features	Benefits
■ ECC, mirroring (RAID 1), integrated for SAS/SATA hard disks	■ High security against physical loss of data
■ Hot-plug functionality is available as option for the most important system components: Hot-plug HDD infrastructure (standard) Hot-plug redundant PSU (optional)	■ Tailor made availability, offers the security level which is recommended by your individual application demands
■ Dual-Core processor, provides two execution cores (each 2 MB Cache) in one physical processor	■ Allowing the platform to do more in less time, IT departments can consolidate applications and more effectively employ the server
■ Intel® Xeon® Dual-Core processor – high performance, yet low power requirements	■ Less power consumption and noise

Type	Mono Socket Tower Server
System board	D2399
Chip set	Intel® 3000
Processors	Intel® Pentium® D (Dual-Core) / Intel® Xeon® UP (Dual-Core)
Type / Frequencies (GHz)	925(3.0), 945(3.4) / 3040(1.86), 3050(2.13), 3060(2.40), 3070 (2.66)
Front-Side-Bus	800 MHz, 1066 MHz
Second-Level-Cache	2x2 MB / 2 MB, 4 MB (3060, 3070) ECC

Memory

512 Mbyte - 8 Gbyte ECC PC2-4200 DDR2 SDRAM; 4 slots; (512 Mbyte, 1 Gbyte, 2 Gbyte)
Mix and match possible; with dual channel operation better performance (2 capacity equal modules necessary). Single channel (1 module) configuration possible.

Flash-EPROM

Local BIOS update via bootable USB device or opt. floppy disk; Remote BIOS update via LAN (Global Flash tool) and optional RemoteView Service Board functionality).

Interfaces

Serial	1 x serial RS-232-C (9-pin) usable for iRMC or system 1 x serial RS-232-C (9-pin) (optional)
Centronics (parallel)	1 x 25-pin, EPP/ECP compatible (opt.)
Keyboard, Mouse	2 x PS/2
USB 2.0	1 x front, 2 x back 1 x internal for backup drives
Graphics	1 x VGA (15-pin)
LAN	1 x RJ45, 1 x service LAN (10/100 Mbit/s)

Onboard controller *

IDE	1 x ATA100 (1 channel for 2 drives DVD / DVD-RW)
SAS variant (LSI 1068)	8 port SAS for internal HDD´s and internal backup devices with RAID 1 (Integrated Mirroring Enhanced also for odd numbered HD´s for Windows and Linux)
SATA variant (Intel® ICH7R)	4 port for internal HDD`s with RAID 0, 1, 10 for Windows and Linux, optional enabling key for RAID 5
LAN (Broadcom BCM5721)	Ethernet 10/100/1000 Mbit/s (PCE-Boot via LAN from PXE server)
Graphics	Matrox G200 integrated in iRMC
Server management	Integrated Remote Management Controller iRMC, IPMI 2.0

PCI Controller *

RAID 5 Controller MegaRAID SAS 8308ELP	SAS ZCR (Zero Channel Controller), optional SATA 8-Port RAID 5, 128 MB LSI Controller
Hard disk drives	36, 73, 146, 300 Gbyte SAS (hot-plug) **or** 80,160, 250, 500 Gbyte SATA (hot-plug)

1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.

I/O Slots:
2 x PCI-X 64-bit / 66 MHz, long; (3,3 V);
1 x PCI 32-bit / 33MHz, long (5V);
2 x PCI-Express, 1 x PCIe x1; 1 x PCIe x8 (x4 wired)

Drive bays

for hard disks **SAS/SATA variant**	4 x 3.5/1-inch, for hot-plug SAS/SATA (in slide-in chassis) + 2 HDD box for SAS only (optional)
for accessible drives	3x 5.25/1.6-inch, one bay is occupied by DVD or DVD-RW
for floppy disk drive	1x 3.5/1-inch, occupied by FDD (optional)

Electrical values

1x standard or 2x optional redundant hot-plug power supplies

Output power	400 W / 1 + 1 x 400 W each
Rated voltage range	100 - 240 V
Rated frequency	50-60 Hz
Max. rated current	100 V - 240 V / 6 A – 3 A
AC output	- / -
Rated current in basic configuration	100 V - 240 V / 1.9 - 0.8 A
Active power	260 W
Apparent power	269 VA
Heat emission	936 kJ/h (887 btu/h)

Temperature/Noise/Dimension/Weight

Ambient temperature	10°C - 35°C (DIN IEC 721-3-3) class 3K2
Declared noise in according with ISO 9296	idle / operating
Sound pressure L_{pAm}	31 db(A) / 34 db(A)
Sound power L_{WAd}	4.8 B / 5.2 B (1 BEL = 10 db)
Dimension of floor-stand (HxWxD)	444 * 205 * 605 mm, incl. all plastics
Weight	approximately 28 kg

Compliance with Norm and Standards

Product safety

Global	IEC 60950
Europe	EN 60950
USA	UL 60950 3rd. Ed.
Canada	CAN/CSA-C22.2 No. 60950 3rd. Ed.

Electro magnetic compatibility

This product and the released accessories, are in compliance with emission class A. In certain cases measures have to be taken to reduce the electro magnetic influence to other equipment.

Europe	EN 55 022 class A, EN 55024, EN61000-3-2 / -3
USA / Canada	FCC class A

Declaration of conformity

Europe (CE)	89/336/EEC; 73/23 EEC
North America	FCC class A

Approvals

Product safety

Global	CB
Europe	CE
USA / Canada	CSA_{US} / CSA_C

There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons, can be applied for on request.

Supported operating systems

Actual release status operating systems: e.g. Microsoft; SUSE; Red Hat; SCO see PRIMERGY released OS http://extranet.fujitsu-siemens.com/products/primergy/opsys/relcurrsys/osrel_a.html

** For supported controllers (onboard and PCI cards for SCSI, SAS, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.

Server Management (see separate data sheets)

Standard	PRIMERGY ServerView Suite; PDA, ASR&R
Optional	RemoteView, iRMC Advanced Pack